

# Offline Monitoring Report

- Status of current launch
- Updates to SWIF

October 27, 2015

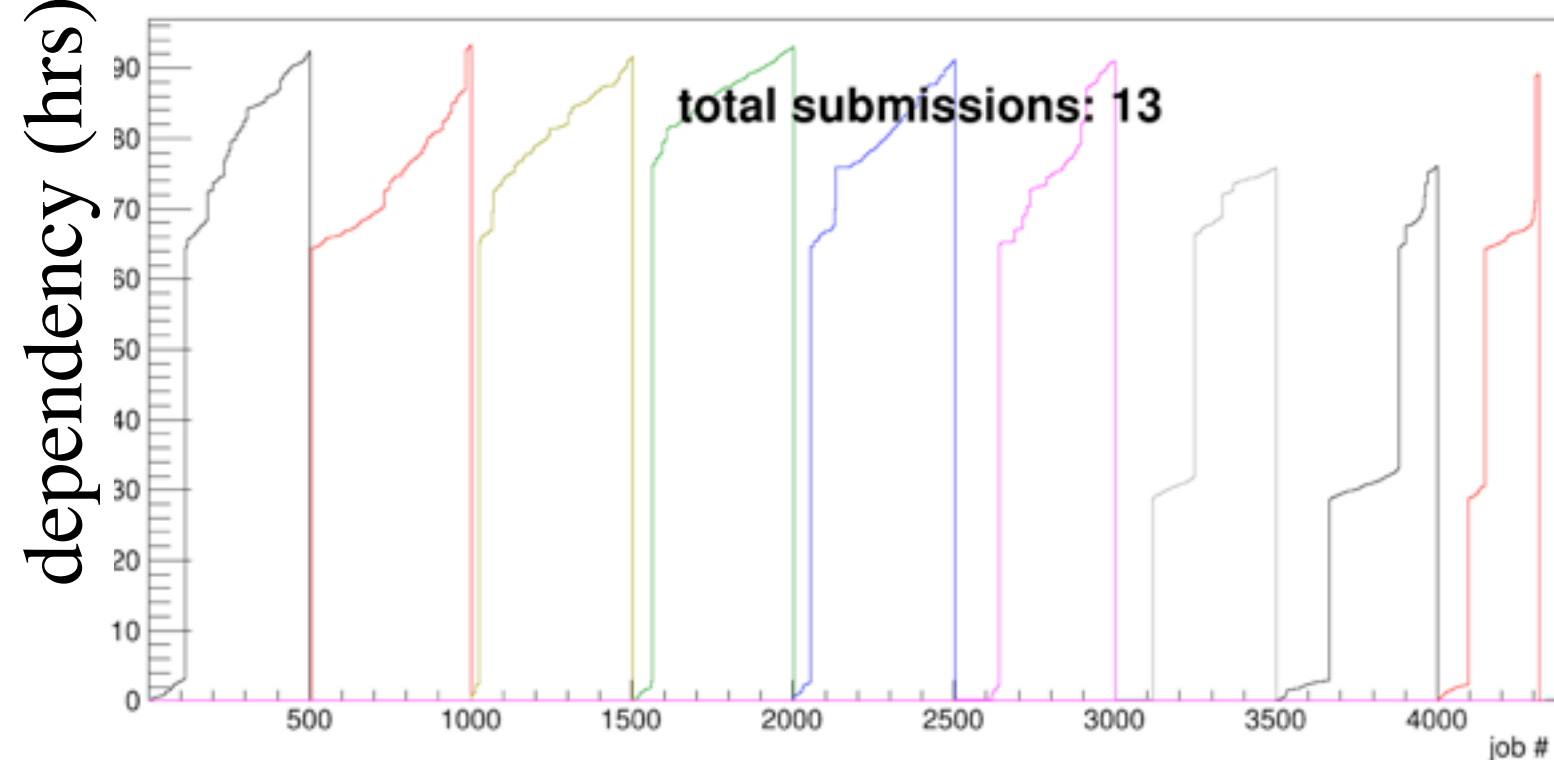
Kei Moriya

# Current Launch

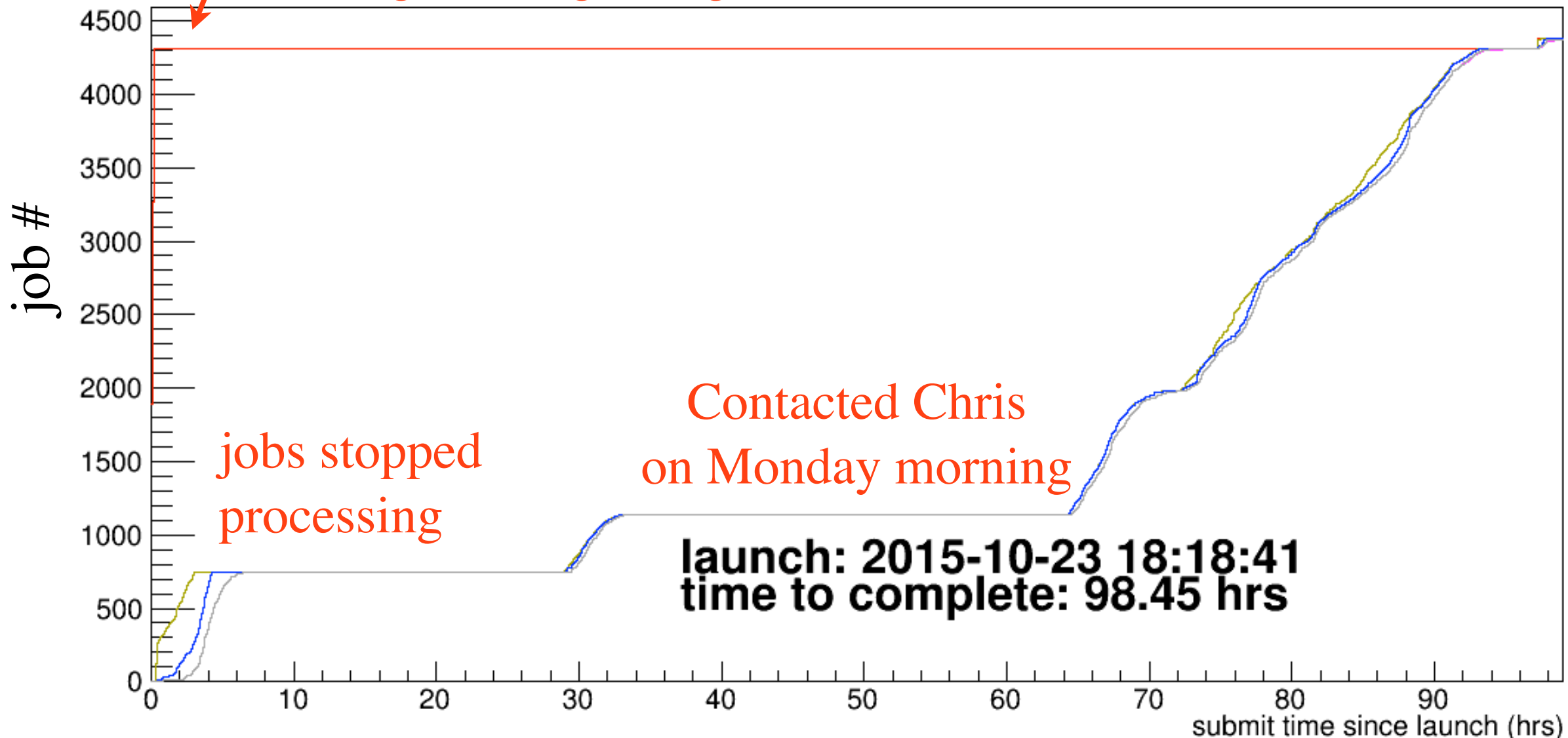
- 2015-03 ver16 launched on October 23 (Fri)
- 4314 jobs (files) for data from 2015-03
- 2 TIMEOUT, 9 OVER\_RLIMIT, 87 SYSTEM issues
- “Network snafu” caused SYSTEM errors (Tuesday afternoon - night)
- Paul did launch this round, instructions at [https://halldweb1.jlab.org/wiki/index.php/Data\\_Monitoring\\_Procedures](https://halldweb1.jlab.org/wiki/index.php/Data_Monitoring_Procedures)
- Forgot to add instructions for 

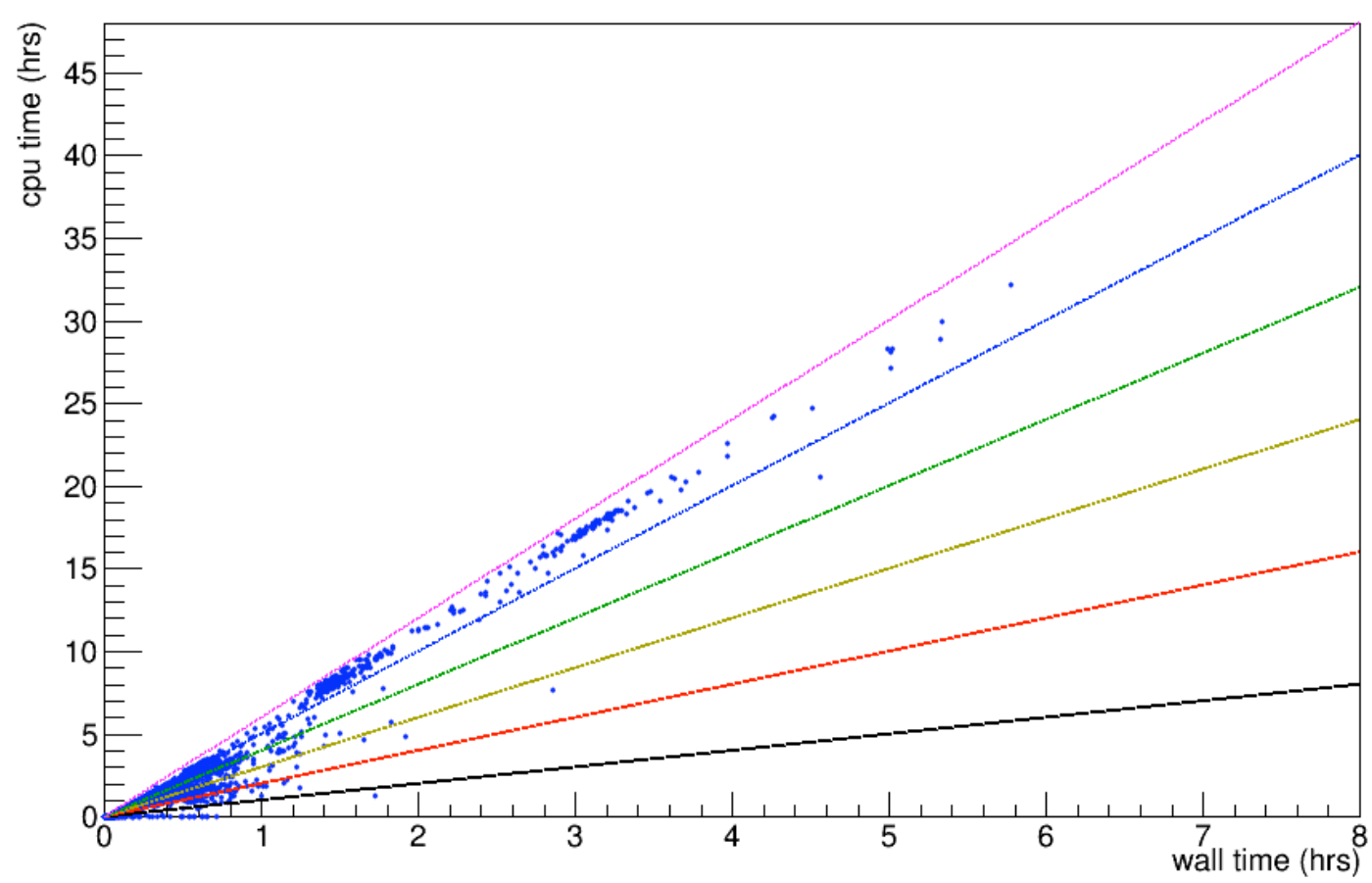
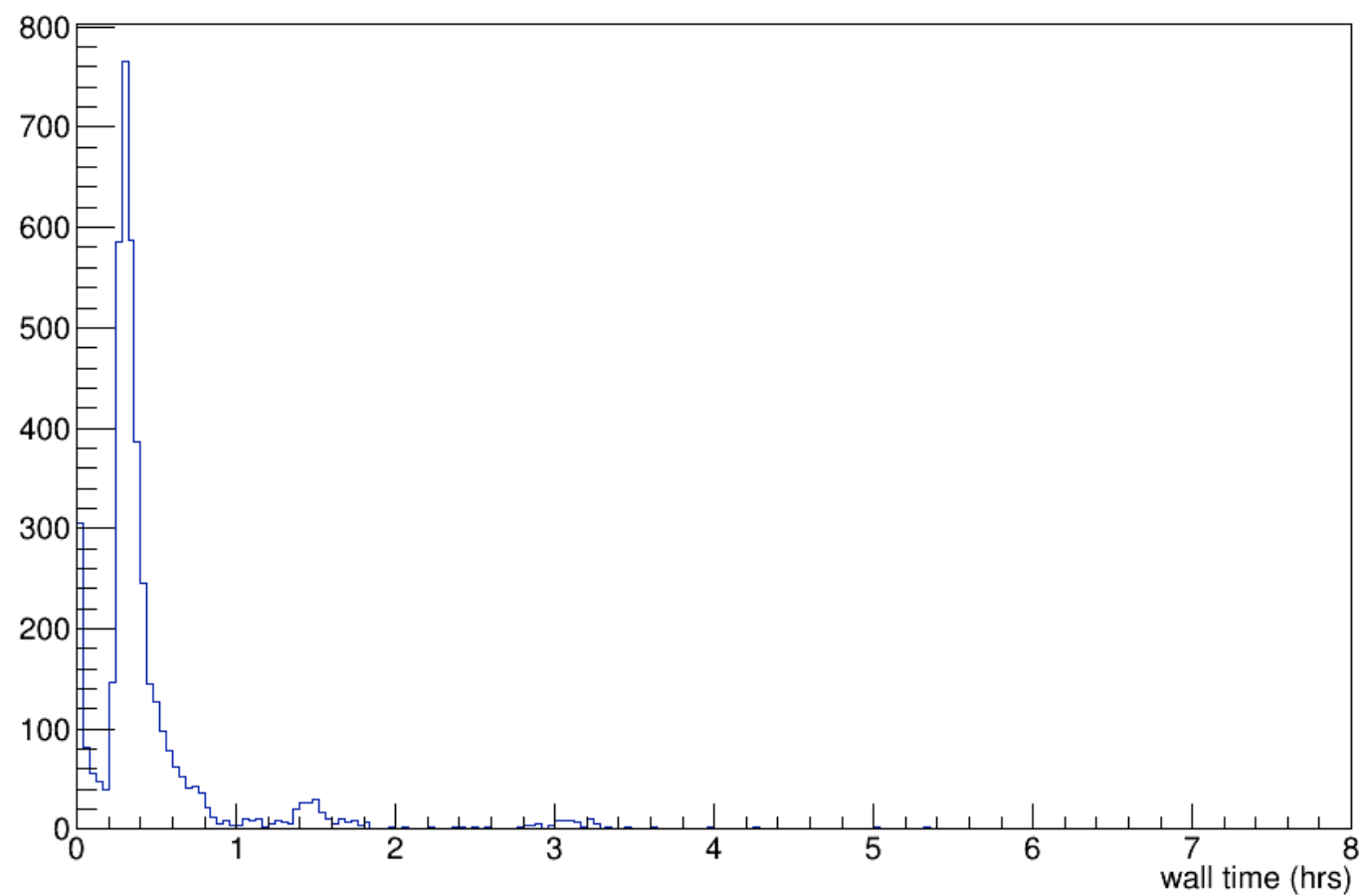
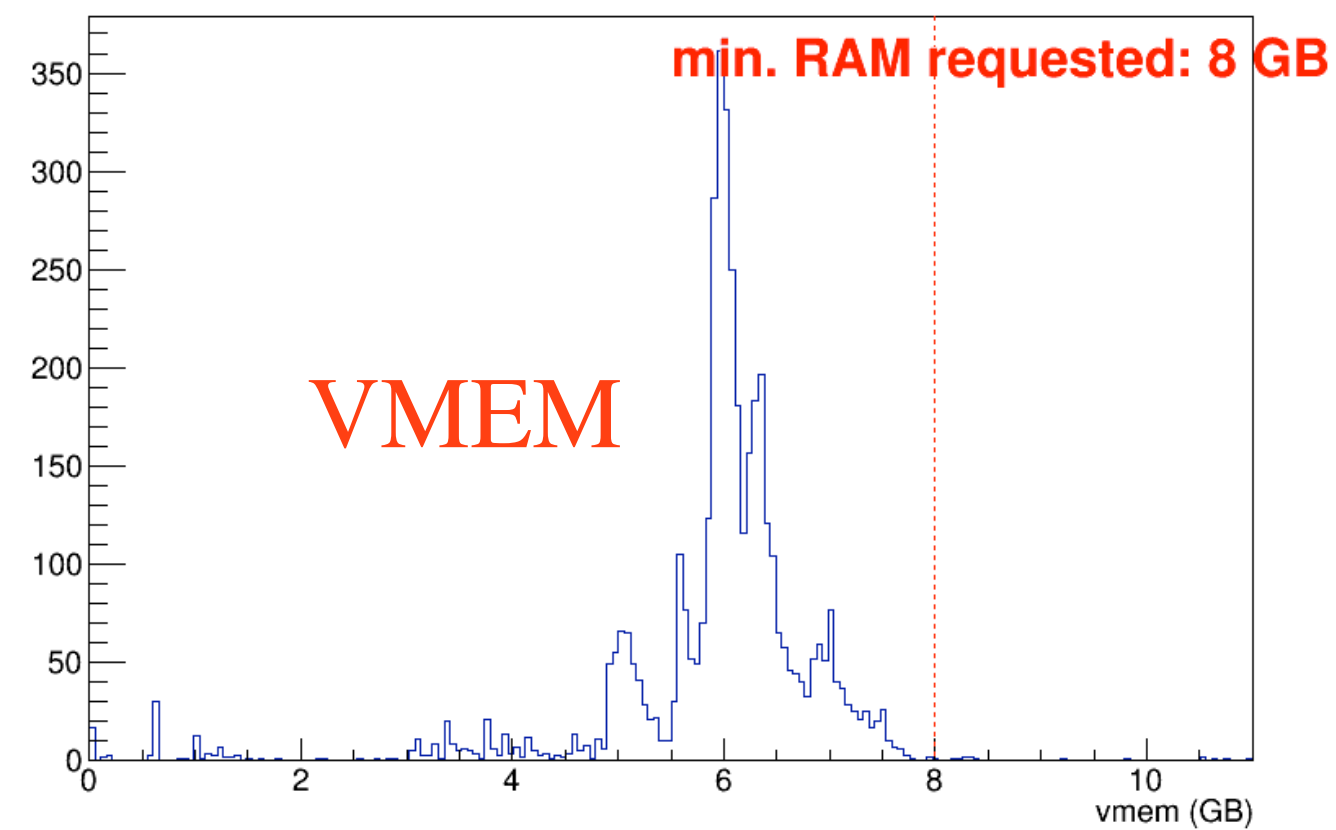
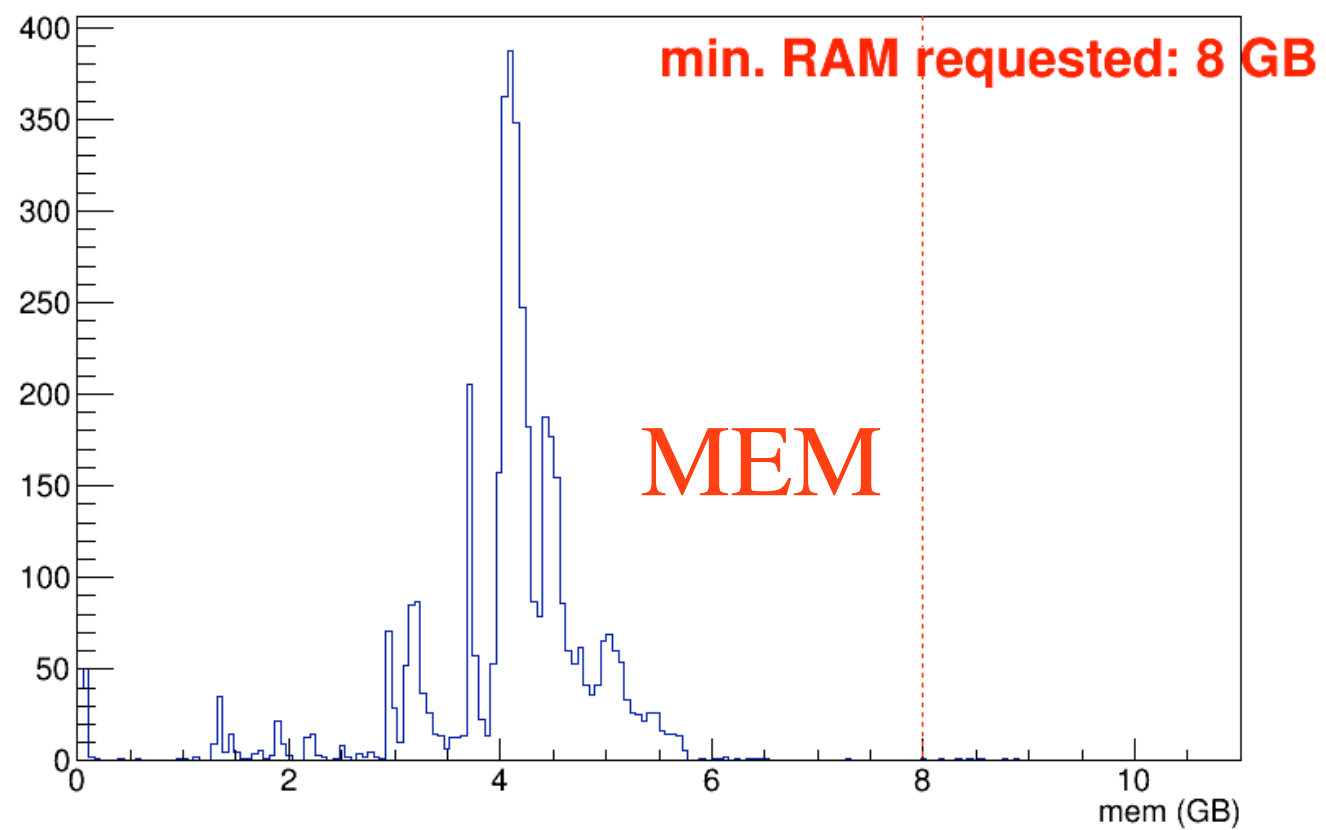
```
swif run [workflow] -errorlimit none
```

 resulted in workflow stopping after first few jobs failed



*new!* SWIF now dumps all jobs  
into Auger at beginning

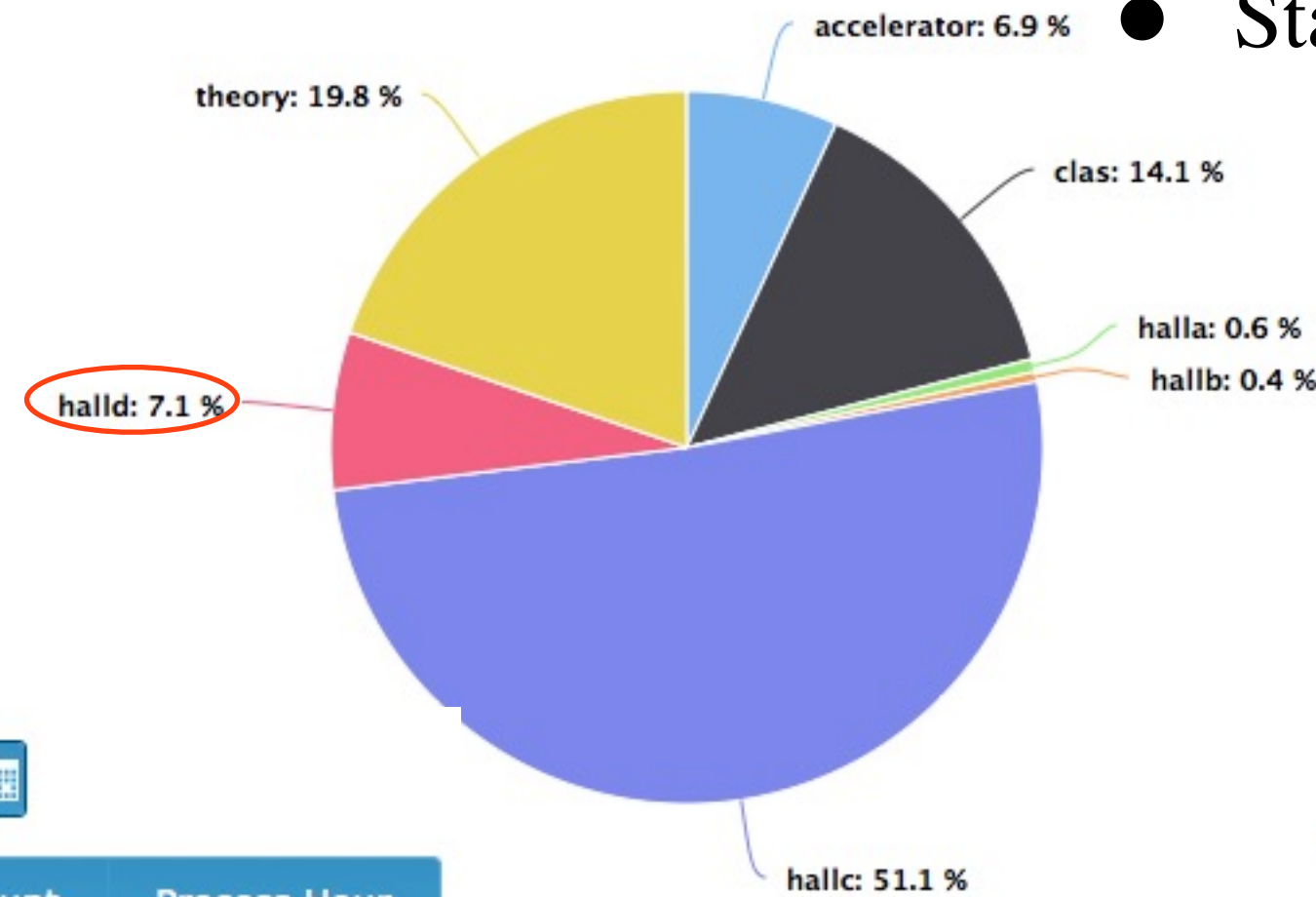




# Farm Environment

● Stats for 2015/09/25 - 2015/09/28

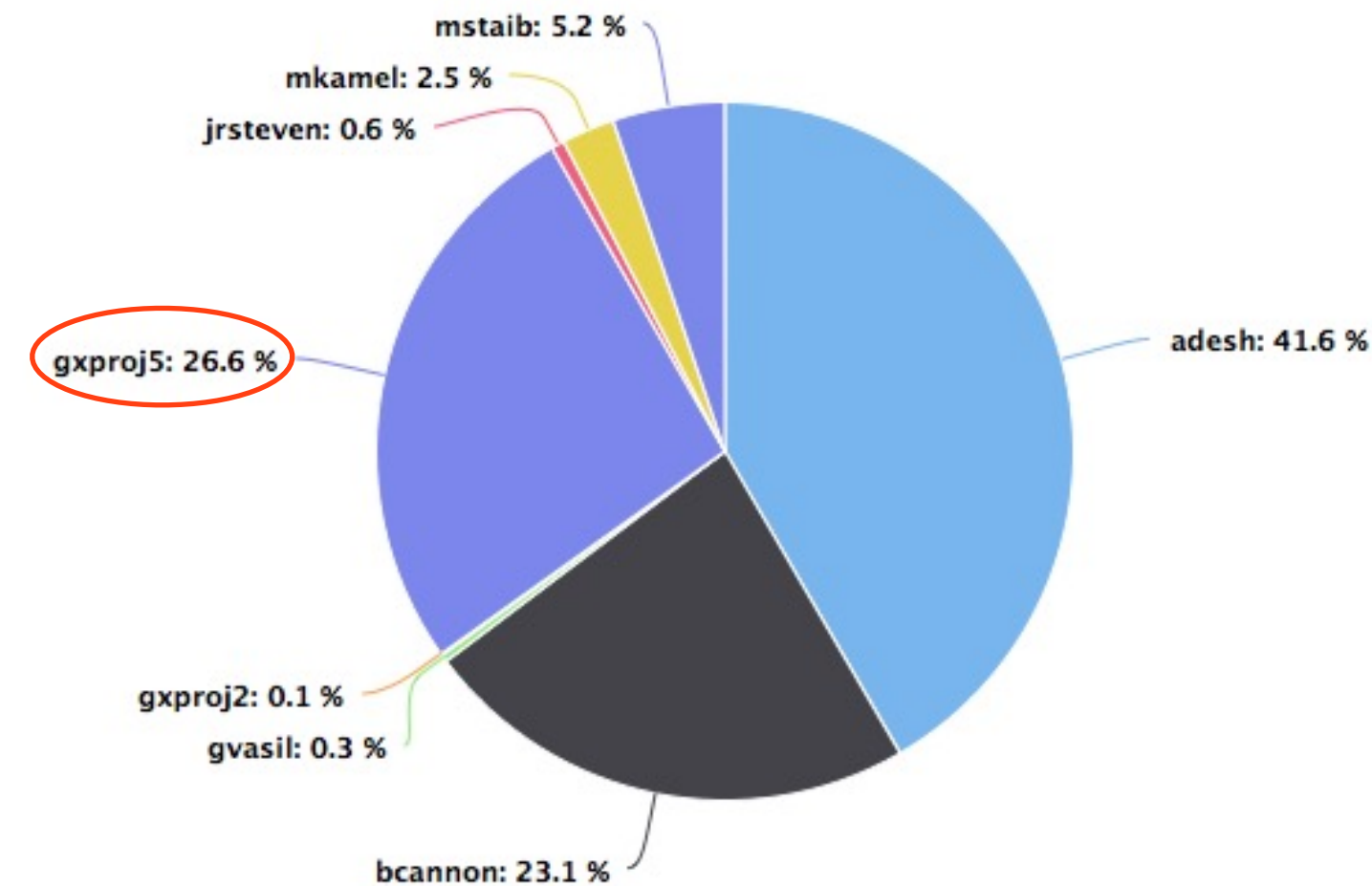
All undefined Jobs



10/24/2015 - 10/27/2015

Hall	Project	Job Count	Process Hour
▶ accelerator	all	3,494	16,459
▶ clas	all	34,313	33,740
▶ halla	all	1,862	1,388
▶ hallb	all	1,360	1,072
▶ hallc	all	5,192	121,980
▶ halld	all	9,325	17,065
▶ theory	all	26,140	47,213
		<b>81,686</b>	<b>238,916</b>

All gluex Jobs



# Updates

- SWIF shows suspended = {user, error} if workflow is {suspended, stopped by errorlimit}
- SWIF now outputs a “death” status for SYSTEM errors
- SciComp is testing option for a single user job to “hog” all CPUs on a single node → to be put into SWIF
- Conversation on changing tape size for data stalled for now...
- From next week if a job segfaults we will exit the job using \$? and this will be recorded in both SWIF and Auger

# Moving Forward

- Due to new plugins, now require 8GB of RAM to run jobs - some pruning of unnecessary histograms would be welcome
- There are some crashes/errors reported in the log files - will send out notices
- Will redo studies of time/resources against #cores/threads shown at collaboration meeting with improvements in tracking
- Next launch: November 6 (Fri)
- SWIF has changed underlying job structure, still rewriting cross-analysis scripts
- Add instructions to wiki